

In the Abstract:

Please replace abstract with the following:

A system, ablation probe, and method is provided for treating tissue, e.g., tissue having tumors. The treatment system is configured to automatically deliver infusaid to tissue when needed and comprises an ablation probe having an ablative element and at least one perfusion exit port. The system further comprises an ablation source operably coupled to the ablative element, and a pump assembly operably coupled to the perfusion exit port(s). The pump assembly is configured for pumping infusaid out through the perfusion exit port(s), preferably during the ablation process. The system further comprises a feedback device configured for controlling the amount of infusaid displaced by the pump assembly based on a sensed tissue parameter, e.g., tissue temperature or tissue impedance. ~~For example, the feedback device can comprise a sensor configured for sensing the tissue parameter, and a perfusion controller configured for controlling the pump assembly based on the sensed tissue parameter. As another example, the feedback device can comprise a perfusion valve associated with the distal end of the shaft. In this case, the perfusion valve forms the perfusion exit port, wherein the perfusion valve changes the size of the perfusion exit port based on tissue temperature.~~